

SUBSTITUTE SEQUENCE LISTING

<110> Keiko ABE
Tomiko ASAKURA
Hiroyuki SORIMACHI
Tazuko UENOYAMA
Kenichiro NAKAJIMA
Katsuhiko KITAMOTO
Junichi MARUYAMA
Mikiya KISHI

<120> NOVEL TASTE-MODIFYING POLYPEPTIDE NAS, DNA THEREOF AND USE THEREOF

<130> 1333.46425X00

<150> JP2004-19251

<151> 2004-01-28

<160> 18

<170> PatentIn version 3.1

<210> 1

<211> 591

<212> DNA

<213> Curculigo latifolia

<400> 1

acaatggcgg ccaagtttct tctcaccatt cttgtcacct ttgcggccgt cgctagcctt	60
ggcatggccg acagtgtcct gctctccggg caaactctgt atgccggcca ctccctcacg	120
tcgggcagct ataccttaac catacaaaac aactgcaacc tggtgaaata ccagcacggg	180
aggcagatct gggctagcga cactgacggg cagggtccc aatgccgcct cacattgcgg	240
agtgcggga acctcattat ctacgacgac aacaacatgg tcgtgtgggg gagcgactgc	300
tgggggaaca acggcacgta tgctcttggt cttcagcagg atggcctctt tgtcatctat	360
ggcccggttt tgtggcccct tggccttaat ggggtgccgca gtcttaatgg tgaaatcaca	420
ggttgctaagg attctactga accacaacat gaggatatta agatggtgat taataattaa	480
tcaagtgaga ggattgttat gagaataatg agggaatgga agaccaatct catgtcgggtg	540
tggcctatct cgacctgttt gcagtgccct tgttaaaata acacattgct t	591

<210> 2

<211> 113

<212> PRT

<213> Curculigo latifolia

<400> 2

Asp Ser Val Leu Leu Ser Gly Gln Thr Leu Tyr Ala Gly His Ser Leu
1 5 10 15

Thr Ser Gly Ser Tyr Thr Leu Thr Ile Gln Asn Asn Cys Asn Leu Val
20 25 30

Lys Tyr Gln His Gly Arg Gln Ile Trp Ala Ser Asp Thr Asp Gly Gln
35 40 45

Gly Ser Gln Cys Arg Leu Thr Leu Arg Ser Asp Gly Asn Leu Ile Ile
50 55 60

Tyr Asp Asp Asn Asn Met Val Val Trp Gly Ser Asp Cys Trp Gly Asn
65 70 75 80

Asn Gly Thr Tyr Ala Leu Val Leu Gln Gln Asp Gly Leu Phe Val Ile
85 90 95

Tyr Gly Pro Val Leu Trp Pro Leu Gly Leu Asn Gly Cys Arg Ser Leu
100 105 110

Asn

<210> 3
<211> 158
<212> PRT
<213> Curculigo latifolia

<400> 3

Met Ala Ala Lys Phe Leu Leu Thr Ile Leu Val Thr Phe Ala Ala Val
1 5 10 15

Ala Ser Leu Gly Met Ala Asp Ser Val Leu Leu Ser Gly Gln Thr Leu
20 25 30

Tyr Ala Gly His Ser Leu Thr Ser Gly Ser Tyr Thr Leu Thr Ile Gln
35 40 45

Asn Asn Cys Asn Leu Val Lys Tyr Gln His Gly Arg Gln Ile Trp Ala
50 55 60

Ser Asp Thr Asp Gly Gln Gly Ser Gln Cys Arg Leu Thr Leu Arg Ser
65 70 75 80

Asp Gly Asn Leu Ile Ile Tyr Asp Asp Asn Asn Met Val Val Trp Gly
85 90 95

Ser Asp Cys Trp Gly Asn Asn Gly Thr Tyr Ala Leu Val Leu Gln Gln
100 105 110

Asp Gly Leu Phe Val Ile Tyr Gly Pro Val Leu Trp Pro Leu Gly Leu
115 120 125

Asn Gly Cys Arg Ser Leu Asn Gly Glu Ile Thr Val Ala Lys Asp Ser
130 135 140

Thr Glu Pro Gln His Glu Asp Ile Lys Met Val Ile Asn Asn

145

150

155

<210> 4
 <211> 23
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer NC1S

<400> 4
 atggcggcca agtttcttct cac

23

<210> 5
 <211> 25
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> primer NC1A

<400> 5
 taatcaccat cttaatatcc tcatg

25

<210> 6
 <211> 114
 <212> PRT
 <213> Curculigo latifolia

<400> 6

Asp Asn Val Leu Leu Ser Gly Gln Thr Leu His Ala Asp His Ser Leu
 1 5 10 15

Gln Ala Gly Ala Tyr Thr Leu Thr Ile Gln Asn Lys Cys Asn Leu Val
 20 25 30

Lys Tyr Gln Asn Gly Arg Gln Ile Trp Ala Ser Asn Thr Asp Arg Arg
 35 40 45

Gly Ser Gly Cys Arg Leu Thr Leu Leu Ser Asp Gly Asn Leu Val Ile
 50 55 60

Tyr Asp His Asn Asn Asn Asp Val Trp Gly Ser Ala Cys Trp Gly Asp
 65 70 75 80

Asn Gly Lys Tyr Ala Leu Val Leu Gln Lys Asp Gly Arg Phe Val Ile
 85 90 95

Tyr Gly Pro Val Leu Trp Ser Leu Gly Pro Asn Gly Cys Arg Arg Val
 100 105 110

Asn Gly

<210> 7
<211> 52
<212> DNA
<213> Artificial Sequence

<220>
<223> primer1

<400> 7
ggggacaact ttgtatagaa aagttgatgc atttcatggt gttttgatca tt 52

<210> 8
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> primer2

<400> 8
ggggactgct tttttgtaca aacttgtcga gctactacag atcttgcta 49

<210> 9
<211> 64
<212> DNA
<213> Artificial Sequence

<220>
<223> primer3

<400> 9
ggggacaagt ttgtacaaaa aagcaggctc taaacgtggg gggggggaca gtgtcctgct 60
ctcc 64

<210> 10
<211> 50
<212> DNA
<213> Artificial Sequence

<220>
<223> primer4

<400> 10
ggggaccact ttgtacaaga aagctggggt taattaagac tgcggcaccc 50

<210> 11
<211> 65
<212> DNA
<213> Artificial Sequence

<220>
<223> primer5

<400> 11
ggggacaagt ttgtacaaaa aagcaggctc taaacgtggg gggggggaca gtgtcctgct 60
ctccg 65

<210> 12
<211> 50

<212> DNA
<213> Artificial Sequence

<220>
<223> primer6

<400> 12
ggggaccact ttgtacaaga aagctggggtt tatccaccat taacacggcg 50

<210> 13
<211> 48
<212> DNA
<213> Artificial Sequence

<220>
<223> primer7

<400> 13
ggggacagct ttcttgtaga aagtgggtga tctgtagtag ctctgtaa 48

<210> 14
<211> 53
<212> DNA
<213> Artificial Sequence

<220>
<223> primer8

<400> 14
ggggacaact ttgtataata aagttggatc ttggatataa aaatccaaat atg 53

<210> 15
<211> 47
<212> DNA
<213> Artificial Sequence

<220>
<223> primer9

<400> 15
ggggacagct ttcttgtaga aagtgggatc tgtagtagct cgtgaag 47

<210> 16
<211> 49
<212> DNA
<213> Artificial Sequence

<220>
<223> primer10

<400> 16
ggggacaact ttgtataata aagttgtttc ctataataga ctagcgtgc 49

<210> 17
<211> 477
<212> DNA
<213> Curculigo latifolia

<400> 17
atggcggcca agtttcttct caccattctt gtcacctttg cggccgtcgc tagccttggc 60

atggccgaca	atgtcctgct	ctccgggcaa	actctgcatg	ccgaccactc	tctccaggcg	120
ggcgccctata	ccttaaccat	acaaaacaag	tgcaacctgg	tgaaatacca	gaacgggagg	180
cagatctggg	ctagcaacac	tgacaggcgg	ggctccggct	gccgcctcac	attgctgagt	240
gacgggaacc	tcgttatcta	cgaccacaac	aacaacgacg	tgtgggggag	cgcttgctgg	300
ggggacaacg	gcaagtatgc	tcttgttctt	cagaaggatg	gcagatttgt	catctatggc	360
ccggttttgt	ggtcccttgg	ccctaattggg	tgccgcctg	ttaatggtgg	aatcacagtt	420
gctaaggatt	ctactgaacc	acaacatgag	gatattaaga	tggtgattaa	taattaa	477

<210> 18
 <211> 3481
 <212> DNA
 <213> *Aspergillus nidulans*

<400> 18	
gatctgtagt	agctcgtgaa ggggtggagag tatatgatgg tactgctatt caatctggca 60
ttggacagtg	agtttgagtt tgatgtacag ttggagtcgt tactgctgtc atcccccttat 120
actcttcgat	tgtttttcga accctaacgc caagcacgct agtctattat aggaaaggat 180
cctctagagt	cgacctgcag gcatgcaagc tggtcagctt ctcttggcaa tagctgcccg 240
tatgacagga	agtccgtaag tacttcccct cccacacttc agtatacgtc ccagtatggt 300
gtggctgacg	attcgagggc cggcatccct acgtcattag tcaaaattgg atactggtat 360
tgtgcttgag	ggcgcgagc cgagagctc agaagatata tccgggttga tctgttctca 420
tattcttttc	agattagaat tactgcttcg tacattccct gataattgat atcttccttc 480
aatgacagaa	atagatatta aacagaaatg gtaatagtcc cggtgcgag aaatacacccg 540
ccccgcgca	ctcgtatata caacagtcaa attcaggagc cacaacatat ctagctcacc 600
gtcactaaga	tatggcgtcc gcttagcata ggagtaactg ttttgaagag ataaatgctg 660
ccgatataata	tacgttttacg caattgccca tgtgaagtca tgcagagtcg ttacttgaat 720
tcaaattgttc	tatagccttc ccaagcactc ttaaccgaag atcccgtctt tatctcgcac 780
caaacaaagg	aaataaatcg caaatctcta acgcccata ttatctacag acgctcaaag 840
tagccctcgc	tctcgagcat gaggatgatc tcatggacaa tggaacgaac gctctgcttg 900
gaaacgtcga	ccacaagggtt ggcgttggtg ggggcctcgt aggggtcatc gacaccggtg 960
aagcccttga	tttcaccgcg gcgggccttg gcgtagatac cgcgcttgct agtggcctca 1020
cagtattcga	ggggagtgtt gacgtgaacc aggaagaaag agccaccggt gctctggaca 1080
gocctcacggg	ccgccttgcg ggagtgtcg tagggagcaa tgggggcagc gataacagcg 1140
gcaccggcgc	gggtgagttc accggcgacg aaagcgatgc gctggacgtt ggtgtggcgg 1200
tcctcacgac	tgaagcccag ctgagaggag agctcgtggc ggacagtgtc accaaggagg 1260
agtgtgacag	agcgtccacc ctgctggttg agagtgaact ggagagcacg agcgatggcg 1320
tccttgccgg	agttcatgta accggtaagg aagatggtga aaccctggag ggcgcgaggg 1380

gggctagact	cgcgaggat	cttgacaact	tgggggtaag	agaaccactc	agggatgtga	1440
gcaccggtac	ggagacggtt	acggagttca	gttccggaga	tgtcgagggt	cttggtgccc	1500
gcaggaaacct	cgtccttggg	catgtactca	tgggtgtcgg	ggaggtaggt	gacttgctgg	1560
aattcaacga	cctcgatacc	gagctccgcg	cggtacttct	cgaccgcgtg	ctgagcatcg	1620
taggggccgt	agaactcctg	acccttggag	ttcttaccag	gaccggcgtg	gtcacggcca	1680
acaatgaagt	gggtggcacc	gtggttctta	cggatgatag	cgtgccagac	agcctcacgg	1740
ggaccgcca	tgcgcatagc	aaggggcaag	agagcaagag	ccgccattcc	gttggggtag	1800
cggggaagaa	gggcctggta	ggcacggaca	cgggtgaagt	ggtcaatgtc	accgggcttg	1860
gtgagaccga	cgacaggggtg	gataaggaca	ttagcttggc	gggcgcgagc	ggcacggacg	1920
gtcaattcac	ggtgagctct	gtgcataggg	tttctgaggt	ctgttagcca	tgacattcca	1980
gtctcaagtc	aagtaaccag	aacgaaccgg	gtctggaagg	cgacaactcg	ggtccagccg	2040
agcttgtcga	agtgaatacg	gagttccgcg	ggggtgtcta	aaatcgcggt	agatttatct	2100
ttcttgattt	atgcaggctc	ctgttgtggt	ctcaaacgta	cagcggaggc	cgacataatc	2160
gtagtggta	agcttgttga	ctgcctcgag	ctttccaccg	atgtagtact	cctcgacctt	2220
ggtgttcagg	tacttgatgg	cggggtgctc	tgggtcaccg	ccgaagacga	gcttggcctc	2280
cttctccctg	gaataagcaa	agatgttaga	aattgocgaa	tcctcgttta	gataaatgcc	2340
acgtccttgg	caaatccgca	gcgcccgtc	gtcccgccat	ccggaagacc	aagcgaacgc	2400
ggagtagcaa	tgacgaggca	gttgcccaag	gtcatgaaaa	caactcactt	gtcagggcgg	2460
tagatgtcgt	caattgtaag	aatagcaagg	ttgcggtcgt	cacggaagtc	acgcaggggtg	2520
acacgggagc	caggcttaag	gccggcctgt	tcaatgactg	ccttggaagc	atccagagta	2580
atgggcatag	agaagagggt	gccgtcggca	agacgagact	cggcgacgac	gctagaaaac	2640
ccccaccatt	agcaaaattg	gcctatattg	gaatatcatt	cccgttatgc	actattttcg	2700
cggctctgcct	ctcgaaagcg	aaagcgaccc	cgcacaaggt	tggatgggct	cgattttgag	2760
gggggagggg	ctgcataccc	gtcgtagtcc	ttctgggttca	tgaaacctgc	gccgcgtcag	2820
tatactttgt	ctcgaaactt	tgaataaaga	caatgtgcgt	tgaatggaag	gagtaaactg	2880
accctcaaga	ggactgaaac	caccgttcat	gatcaattca	agatcgaca	gctggcgctc	2940
agtgagcacg	atggagggaa	gagtggcggc	ctcggcctcg	agctgggtcgt	ggcggggagc	3000
atcgcgagcg	atgaggtcct	tgaggacacc	accgtgagga	gtgttagcca	tattgaatga	3060
actgtgcttt	acaagaatga	aaatgatccg	gtggaaggag	aggaaggtgc	ggaagaataa	3120
tgggtgatga	gaagtgggaa	agctgcgagt	tttaaaaaaa	cgatggcgca	aaagggccgc	3180
aagccaacaa	ttgcggaacc	agatttaatt	caggagaacg	attgactgga	ttccctgccc	3240
ggaccagcca	agtaaaactgc	cggcctggat	tcagagtggg	gggctacgtc	gtctacgtac	3300
tccatatact	aatcctacaa	ggttatccag	acttctgct	cagagtatca	ggtatcatct	3360

atactatcag gtagttcact ccacatatcg agggcgaaac aataaaagtg gaaggtttcg 3420

accaagtacc gtacgaacga gacgaacgag gagccatatt tggattttta tatccaagat 3480

c 3481